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The Health Monitoring System of an Isolated Religious Building in Italy

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The "Our Lady of Tears Shrine" in Syracuse is one of the few seismically isolated worship structures in Italy, and has been recently included in the Italian network of structures permanently monitored by the Italian Department of Civil Protection within the Seismic Observatory of Structure (OSS). After a brief presentation of the Sanctuary and the objectives of OSS, the sensors installed in the structure and the digital dynamic acquisition system are shown together with the dedicated software for processing and management of data, and with the first data acquired from the continuous monitoring of the structure under thermal variations. Finally, a detailed finite element model of the Sanctuary has been developed in order to perform a reliable dynamical identification and seismic investigation.

Ключевые слова:

Содержание.

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